

What is claimed is:

1. An electrochemical biosensor comprising:
 - an electrode support substrate,
 - electrodes positioned on the electrode support substrate,
 - 5 a sensor support substrate coupled to the electrode support substrate, and
 - electrically conductive tracks positioned on the sensor support substrate, each track being in electrical communication with one of the electrodes.
2. The biosensor of claim 1 wherein the sensor support substrate is formed to include notches and each notch is aligned with a portion of one electrode.
- 10 3. The biosensor of claim 2 wherein the electrodes cooperate to define an electrode array and leads extending from the array and each notch is aligned with at least a portion of one lead.
4. The biosensor of claim 1 wherein the electrodes cooperate to define spaced-apart electrode arrays.
- 15 5. The biosensor of claim 1 wherein the sensor support substrate is formed to include an opening in alignment with one of the electrode arrays.
6. The biosensor of claim 1 wherein the tracks are formed to include layers.
7. The biosensor of claim 6 wherein one layer is silver ink.
- 20 8. The biosensor of claim 6 wherein one layer is carbon ink.
9. The biosensor of claim 6 wherein the electrodes are gold.
10. The biosensor of claim 1 wherein the sensor support substrate is formed to include an opening in alignment with at least a portion of the electrodes.
11. The biosensor of claim 10 further comprising a cover substrate coupled to the sensor support substrate.
- 25 12. The biosensor of claim 11 wherein the cover substrate, sensor support substrate, and electrode support substrate cooperate with one another to define a channel and at least a portion of the electrodes are positioned in the channel.
13. The biosensor of claim 1 wherein the electrode support substrate and the sensor support substrate cooperate to define a channel and at least a portion of the electrodes are positioned in the channel.
- 30 14. The biosensor of claim 13 wherein the sensor support substrate is formed to include an opening in alignment with the channel.
15. A biosensor comprising:

100-120-130-140-150

a metallized electrode support substrate being formed to define an electrode array and leads extending from the array,

a sensor support substrate coupled to the electrode support substrate, the sensor support substrate being formed to include notches and an opening, at least a portion of each notch being aligned with one lead and the opening being spaced-apart from the leads, and

electrically conductive tracks positioned on the sensor support substrate, each track extending across one of the notches and into engagement with one lead.

16. The biosensor of claim 15 wherein the tracks are formed to include
10 layers.

17. The biosensor of claim 16 wherein one layer is silver ink.

18. The biosensor of claim 16 wherein one layer is carbon ink.

19. The biosensor of claim 16 wherein the electrode array and leads are gold.

15 20. The biosensor of claim 16 further comprising a cover substrate coupled to the sensor support substrate and extending across the electrode array.

21. A method of forming a biosensor, the method comprising the steps of:

providing a metallized electrode support substrate and a sensor support,

ablating the electrode support substrate to form electrodes,

20 coupling the sensor support substrate to the electrode support substrate, and positioning spaced-apart electrically conductive tracks across the sensor support substrate so that each track is in electrical communication with one electrode.

22. The method of claim 21 further comprising the step of punching notches in the sensor support substrate and the coupling step includes aligning the notches with respective electrodes.

23. The method of claim 21 further comprising the step of applying a reagent to a portion of the electrodes.

24. The method of claim 21 further comprising the step of punching an opening in the substrate spaced-apart from the notches.